**Data Flow Diagram for AuthForm**

App Description:

This is a simple user authentication application built with React. It includes a form with email and password fields, along with a "Remember Me" checkbox and a show/hide password toggle. The app performs basic validation checks on the email and password format. Upon successful validation, it displays a success message.

Level 0(Context Diagram):

**+----------------------------+**

**| External Entity: User |**

**+----------------------------+**

**|**

**| User Actions (Input, Submit)**

**V**

**+---------------------------------+**

**| User Authentication App|**

**| (Process: 1.0) |**

**+---------------------------------+**

**|**

**| Form Data, Validation Results**

**V**

**+------------------------+**

**| Data Store: |**

**| - Form Data |**

**+------------------------+**

Level 1(Decomposition of Process 1.0):

**+----------------------------+**

**| External Entity: User |**

**+----------------------------+**

**|**

**| User Input (Form Data)**

**V**

**+------------------------+**

**| Process: 1.1 - |**

**| Handle Input |**

**+------------------------+**

**|**

**| Updated Form Data**

**V**

**+------------------------+**

**| Data Store: |**

**| - Form Data |**

**+------------------------+**

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**|**

**| Form Data**

**|**

**+-----------------------------+**

**| Process: 1.2 - |**

**| Validate and Submit |**

**+-----------------------------+**

**|**

**| Validation Results, Login Status**

**V**

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**| External Entity: User |**

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**Explanation**

* **Level 0:**
  + Shows the user interacting with the "User Authentication App" process.
  + The app primarily manages "Form Data," which includes email, password, and rememberMe status.
* **Level 1:**
  + Breaks down the app into two processes:
    - "Handle Input": Manages changes in form fields, updating the form data state.
    - "Validate and Submit": Handles form submission, performs validation checks, and updates the login status based on validation results.

**Key points**

* This DFD illustrates how user input and form submission trigger data processing and validation.
* The main data being processed is "Form Data."
* Validation results and login status are outputs that affect the user interface (showing errors or success messages).
* This is a simplified representation, and for a more complex app, you might have additional processes (e.g., data persistence, API interaction) and data stores.